

KARAN CHOUDHARY

DevOps | Cloud Enthusiast

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PROFESSIONAL EXPERIENCE

Packaged Application Development Associate | November 24 - Present

Accenture

- Developed a strong foundation in Cloud, DevOps, and SDLC.

Cloud Engineer Intern | June 24 - November 24

Brained

- Led the end-to-end deployment of the PROD environment, ensuring strict adherence to critical processes and best practices.
- Implemented multi-environment deployment strategies on Kubernetes, utilizing NGINX for load balancing, DNS for traffic routing, and automated Bitbucket pipelines for PROD and UAT environments.
- Provisioned and managed Azure resources, including AKS and Virtual Machines, using Terraform, while optimizing infrastructure through service analysis, resource decommissioning, and a cluster migration initiative that reduced costs by ~55%.
- Managed project deployments, created cloud resources, handled SSL certificates, and oversaw infrastructure and data storage tasks based on service tickets.

Personal Projects

Three-tier Application Deployment

- Successfully deployed a three-tier To-Do application on AWS EKS, featuring a React frontend, Node.js API backend, and MongoDB database. Configured IAM roles and an EC2 instance for infrastructure management, utilizing AWS CLI and Docker for setup.
- Utilized AWS ECR for secure container image storage.
- Automated EKS cluster creation with eksctl, establishing a cluster with 2 nodes. Managed Kubernetes operations with kubectl and deployed application manifests efficiently.
- Enhanced traffic management with AWS Load Balancer Controller and configured Ingress using Helm.

Setup CI/CD Pipeline using Jenkins

- Initiated the development of Continuous Integration Continuous Deployment(CI/CD) pipeline to automate the deployment of a Node.js Todo application hosted on a EC2 instance.
- Provisioned an EC2 instance and installed Jenkins to establish an CD/CD environment.
- Cloned the Todo app code from GitHub and Dockerized the Todo app through the creation of a Docker file ensuring portability and reproducibility.

SKILLS AND TOOLS

Kubernetes, Docker, Terraform, Jenkins, GitOps, ArgoCD, CI/CD, GitHub, Bash, Python, Networking, Helm, MySQL, BitBucket, Lens, SSH, SSL, Kind, KubeADM, MongoDB.

AWS Services - EC2, VPC, S3, RDS, IAM, Lambda, CloudWatch, EKS, Route53, SNS, ASG, LoadBalancing, CodeBuild, CodeDeploy, CodePipeline.

Azure - Virtual Machine, AKS, StorageAccount, ResourceGroup, KeyVault, Vnet, Monitoring.

OS - Linux, Windows

EDUCATION

Vidyavardhini's College of Engineering and Technology | 2020-2024

Bachelor of Technology | 8.64 CGPA

R.P Jr College | 2019-2020

12th - Science | 71.69 %

J B Ludhani High School | 2018

10th - General | 88.40 %

CERTIFICATION

- AWS Cloud Practitioner Certification | Amazon Web Service